Transit
Preliminary
1

463

TRANSIT

14.113.0101

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100 00	0 44	100.00	0.87	99.99	1.31	89
1	99.98	1 75	99 98	2 18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99 92	3.93	99 91	4 36	99.88	4.80	87
3	99.86	5.23	99 84	5.67	99.81	6.10	99.79	6.54	86
4	99 76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99 54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99 25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16 50	98 56	16.93	80
10	98 48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19 51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21 64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24 62	96.81	25 04	96.70	25.46	75
15	96.59	25 88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27 98	95.88	28 40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30 07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93,97	34.20	93.82	34.61	93.67	35.02	93.51	35 43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38 67	67
23	92.05	39.07	91.88	39 47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89 69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48 86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52 99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60 53	79.34	60.88	79.07	61 22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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MATTHEW CO.
ENGINEERS
ELK BLDG. SANTA ROSA

MEDICINE

TABLE OF STADIA REDUCTIONS

TABLE OF STADIA REDUCTIONS

For a Constant of 100.

ROD VERTICAL.

Min.	0°		1°		2°		3°	
	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff Elev.	Hor Dist.	Diff. Elev.
0'	100.00	.00	99.97	1.74	99.88	3.49	99.73	5.23
2	100.00	.06	99.97	1.80	99.87	3 55	99.72	5.28
4	100.00	.12	99.97	1.86	99.87	3.60	99.71	5.34
6	100.00	.17	99.96	1.92	99.87	3.66	99.71	5.40
8	100.00	.23	99.96	1.98	99.86	3.72	99.70	5.46
10	100.00	.29	99.96	2.04	99.86	3.78	99.69	5.52
12	100.00	35	99.96	2.09	99.85	3.84	99.69	5.57
14	100.00	41	99.95	2.15	99.85	3.90	99.68	5.63
16	100.00	.47	99.95	2.21	99.84	3.95	99.68	5.69
18	100.00	.52	99.95	2.27	99.84	4.01	99.67	5.75
20	100.00	.58	99.95	2.33	99.83	4.07	99.66	5.80
22	100.00	64	99.94	2.38	99.83	4.13	99.66	5.86
24	100.00	.70	99.94	2.44	99.82	4.18	99.65	5.92
26	99.99	.76	99.94	2.50	99.82	4.24	99.64	5.98
28	99.99	.81	99.93	2.56	99.81	4.30	99.63	6.04
30	99.99	.87	99.93	2.62	99.81	4.36	99.63	6.09
32	99.99	.93	99.93	2.67	99.80	4.42	99.62	6.15
34	99.99	.99	99.93	2.73	99.80	4.48	99.62	6.21
36	99.99	1.05	99.92	2.79	99.79	4.53	99.61	6.27
38	99.99	1.11	99.92	2.85	99.79	4.59	99.60	6.33
40	99.99	1.16	99.92	2.91	99.78	4.65	99.59	6.38
42	99.99	1.22	99.91	2.97	99.78	4.71	99.59	6.44
44	99.98	1.28	99.91	3.02	99.77	4.76	99.58	6.50
46	99.98	1.34	99.90	3.08	99.77	4.82	99.57	6.56
48	99.98	1.40	99.90	3.14	99.76	4.88	99.56	6.61
50	99.98	1.45	99.90	3.20	99.76	4.94	99.56	6.67
52	99.98	1.51	99.89	3.26	99.75	4.99	99.55	6.73
54	99.98	1.57	99.89	3.31	99.74	5.05	99.54	6.78
56	99.97	1.63	99.89	3.37	99.74	5:11	99.53	6.84
58	99.97	1.69	99.88	3.43	99.73	5.17	99.52	6.90
60	99.97	1.74	99.88	3.49	99.73	5.23	99.51	6.96
c= .75	.75	.01	.75	.02	.75	.03	.75	.05
c=1.15	1.15	.01	1.15	.03	1.15	.05	1.15	.07
c=1.90	1.90	.02	1.90	.05	1.90	.08	1.90	.12

Min.	4°		5°		6°		7°	
	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist	Diff. Elev.	Hor Dist.	Diff. Elev.
0'	99.51	6.96	99.24	8.68	98.91	10.40	98.51	12.10
2	99.51	7.02	99.23	8.74	98.90	10.45	98.50	12.15
4	99.50	7.07	99.22	8.80	98.88	10.51	98.48	12.21
6	99.49	7.13	99.21	8.85	98.87	10.57	98.47	12.26
8	99.48	7.19	99.20	8.91	98.96	10.62	98.46	12.32
10	99.47	7.25	99.19	8.97	98.85	10.68	98.44	12.38
12	99.46	7.30	99.18	9.03	98.83	10.74	98.43	12.43
14	99.46	7.36	99.17	9.08	98.82	10.79	98.41	12.49
16	99.45	7.42	99.16	9.14	98.81	10.85	98.40	12.55
18	99.44	7.48	99.15	9.20	98.80	10.91	98.39	12.60
20	99.43	7.53	99.14	9.25	98.78	10.96	98.37	12.66
22	99.42	7.59	99.13	9.31	98.77	11.02	98.36	12.72
24	99.41	7.65	99.11	9.37	98.76	11.08	98.34	12.77
26	99.40	7.71	99.10	9.43	98.74	11.13	98.33	12.83
28	99.39	7.76	99.09	9.48	98.73	11.19	98.31	12.88
30	99.38	7.82	99.08	9.54	98.72	11.25	98.29	12.94
32	99.38	7.88	99.07	9.60	98.71	11.30	98.28	13.00
34	99.37	7.94	99.06	9.65	98.69	11.36	98.27	13.05
36	99.36	7.99	99.05	9.71	98.68	11.42	98.25	13.11
38	99.35	8.05	99.04	9.77	98.67	11.47	98.24	13.17
40	99.34	8.11	99.03	9.83	98.65	11.53	98.22	13.22
42	99.33	8.17	99.01	9.88	98.64	11.59	98.20	13.28
44	99.32	8.22	99.00	9.94	98.63	11.64	98.19	13.33
46	99.31	8.28	98.99	10.00	98.61	11.70	98.17	13.39
48	99.30	8.34	98.98	10.05	98.60	11.76	98.16	13.45
50	99.29	8.40	98.97	10.11	98.58	11.81	98.14	13.50
52	99.28	8.45	98.96	10.17	98.57	11.87	98.13	13.56
54	99.27	8.51	98.94	10.22	98.56	11.93	98.11	13.61
56	99.26	8.57	98.93	10.28	98.54	11.98	98.10	13.67
58	99.25	8.63	98.92	10.34	98.53	12.04	98.08	13.73
60	99.24	8.68	98.91	10.40	98.51	12.10	98.06	13.78
c= .75	.75	.06	.75	.07	.75	.08	.74	.10
c=1.15	1.15	.09	1.14	.11	1.14	.13	1.14	.15
c=1.90	1.89	.15	1.89	.18	1.89	.21	1.88	.25

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Table of Stadia Reductions.—Continued.

Min	8°		9°		10°		11°	
	Hor Dist.	Diff. Elev	Hor Dist	Diff. Elev	Hor. Dist.	Diff Elev	Hor Dist	Diff Elev.
0'	98.06	13.78	97.55	15.45	96 98	17.10	96 36	18.73
2	98.05	13.84	97 53	15.51	96 96	17.16	96.34	18 78
4	98.03	13.89	97.52	15.56	96 94	17.21	96 32	18 84
6	98.01	13.95	97.50	15.62	96.92	17 26	96 29	18.89
8	98.00	14.01	97.48	15.67	96 90	17.32	96 27	18.95
10	97.98	14 06	97.46	15.73	96 88	17.37	96.25	19.00
12	97.97	14.12	97.44	15.78	96 86	17.43	96 23	19 05
14	97.95	14.17	97.43	15.84	96 84	17.48	96 21	19.11
16	97.93	14 23	97.41	15.89	96 82	17.54	96.18	19.16
18	97.92	14.28	97.39	15.95	96.80	17 59	96.16	19.21
20	97.90	14.34	97.37	16.00	96 78	17.65	96.14	19.27
22	97.88	14.40	97.35	16 06	96.76	17.70	96.12	19.32
24	97.87	14.45	97.33	16.11	96.74	17.76	96.09	19.38
26	97.85	14.51	97.31	16 17	96.72	17.81	96.07	19.43
28	97.83	14.56	97.29	16.22	96 70	17.86	96.05	19.48
30	97.82	14.62	97.28	16.28	96.68	17.92	96.03	19.54
32	97.80	14.67	97.26	16 33	96 66	17 97	96.00	19.59
34	97.78	14.73	97 24	16.39	96.64	18 03	95 98	19.64
36	97.76	14.79	97.22	16.44	96 62	18 08	95 96	19.70
38	97.75	14.84	97.20	16.50	96.60	18.14	95.93	19.75
40	97.73	14.90	97.18	16.55	96 57	18 19	95.91	19.80
42	97.71	14.59	97.16	16 61	96.55	18.24	95.89	19 86
44	97.69	15.01	97.14	16 66	96 53	18 30	95.86	19 91
46	97.68	15 06	97.12	16 72	96.51	18 35	95.84	19.96
48	97.66	15.12	97.10	16.77	96 49	18 41	95.82	20 02
50	97.64	15.17	97.08	16.83	96 47	18.46	95.79	20 07
52	97.62	15.23	97.06	16.88	96 45	18.51	95 77	20.12
54	97.61	15 28	97.04	16 94	96 42	18.57	95.75	20.18
56	97 59	15.34	97 02	16 99	96 40	18 62	95.72	20.23
58	97.57	15.40	97.00	17.05	96.38	18.68	95.70	20.28
60	97.55	15.45	96.98	17 10	96.36	18.73	95.68	20.34
c= .75	.74	.11	.74	12	74	14	.73	15
c=1.15	1.14	.17	1.13	.19	1 13	.21	1.13	.23
c=1.90	1.88	.28	1.87	.31	1.87	35	1 86	.38

Min.	12°		13°		14°		15°	
	Hor. Dist	Diff. Elev	Hor Dist.	Diff. Elev	Hor Dist	Diff Elev	Hor Dist	Diff. Elev.
0'	95.68	20.34	94.94	21.92	94.15	23.47	93.30	25.00
2	95.65	20.39	94.91	21.97	94.12	23.52	93.27	25.05
4	95.63	20.44	94.89	22.02	94.09	23.58	93.24	25.10
6	95.61	20 50	94.86	22.08	94.07	23.63	93.21	25.15.
8	95 58	20.55	94.84	22.13	94 04	23.68	93.18	25 20
10	95.56	20.60	94.81	22.18	94.01	23.73	93.16	25.25
12	95.53	20 66	94 79	22 23	93.98	23.78	93.13	25.30
14	95.51	20 71	94.76	22.28	93.95	23.83	93 10	25.35
16	95.49	20.76	94 73	22.34	93.93	23.88	93 07	25 40
18	95.46	20 81	94.71	22.39	93.90	23.93	93.04	25.45
20	95 44	20.87	94.68	22.44	93.87	23.99	93.01	25.50
22	95 41	20.92	94.66	22.49	93.84	24 04	92.98	25.55
24	95.39	20.97	94.63	22.54	93.81	24.09	92.95	25.60
26	95.36	21.03	94.60	22.60	93.79	24.14	92.92	25.65
28	95.34	21 08	94.58	22.65	93.76	24.19	92.89	25.70
30	95.32	21.13	94.55	22.70	93.73	24.24	92.86	25.75
32	95 29	21.18	94.52	22.75	93.70	24.29	92.83	25.80
34	95.27	21.24	94.50	22.80	93.67	24.34	92.80	25.85
36	95.24	21 29	94.47	22.85	93.65	24.39	92.77	25.90
38	95 22	21 34	94.44	22.91	93.62	24.44	92.74	25.95
40	95.19	21.39	94.42	22 96	93.59	24.49	92.71	26.00
42	95.17	21.45	94 39	23 01	93.56	24.55	92.68	26 05
44	95 14	21.50	94.36	23.06	93 53	24.60	92.65	26 10
46	95 12	21.55	94.34	23 11	93.50	24.65	92.62	26.15
48	95.09	21.60	94.31	23.16	93 47	24.70	92.59	26.20
50	95.07	21.66	94.28	23.22	93.45	24.75	92.56	26 25
52	95.04	21.71	94.26	23.27	93.42	24.80	92.53	26 30
54	95.02	21.76	94 23	23.32	93.39	24.85	92.49	26.35
56	94.99	21.81	94 20	23.37	93.36	24.90	92.46	26 40
58	94.97	21.87	94.17	23.42	93 33	24.95	92.43	26.45
60	94.94	21.92	94 15	23.47	93.30	25.00	92.40	26 50
c= .75	73	16	.73	17	.73	19	.72	20
c=1.15	1.12	.25	1.12	.27	1 11	29	1.11	.31
c1.90	1.85	.41	1.85	44	1.84	48	1.83	.51

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Min	16°		17°		18°		19°	
	Hor. Dist.	Diff Elev	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.
0′	92.40	26 50	91.45	27.96	90.45	29.39	89.40	30.78
2	92.37	26.55	91.42	28.01	90.42	29.44	89.36	30.83
4	92.34	26.59	91.39	28.06	90.38	29.48	89.33	30.87
6	92.31	26.64	91.35	28.10	90.35	29.53	89.29	30 92
8	92.28	26 69	91.32	28.15	90.31	29.58	89.26	30.97
10	92.25	26.74	91 29	28.20	90 28	29.62	89.22	31.01
12	92.22	26.79	91.26	28.25	90.24	29.67	89.18	31.06
14	92.19	26.84	91.22	28.30	90.21	29.72	89.15	31.10
16	92.15	26 89	91.19	28.34	90.18	29.76	89 11	31.15
18	92.12	26.94	91.16	28.39	90.14	29.81	89.08	31.19
20	92.09	26.99	91 12	28.44	90 11	29.86	89.04	31.24
22	92.06	27.04	91.09	28.49	90 07	29,90	89.00	31.28
24	92.03	27.09	91.06	28.54	90 04	29.95	88.96	31.33
26	92.00	27.13	91.02	28 58	90.00	30.00	88.93	31.38
28	91.97	27.18	90.99	28.63	89.97	30 04	88.89	31.42
30	91.93	27 23	90.96	28.68	89.93	30.09	88.86	31.47
32	91.90	27.28	90 92	28.73	89 90	30.14	88 82	31.51
34	91.87	27.33	90.89	28.77	89.86	30.19	88.78	31.56
36	91.84	27.38	90.86	28 82	89 83	30.23	88 75	31.60
38	91.81	27.43	90 82	28.87	89.79	30.28	88.71	31.65
40	91.77	27 48	90.79	28.92	89.76	30.32	88.67	31.69
42	91.74	27.52	90.76	28 96	89.72	30.37	88.64	31.74
44	91 71	27 57	90.72	29 01	89 69	30.41	88.60	31.78
46	91.68	27.62	90.69	29 06	89.65	30.46	88.56	31.83
48	91.65	27.67	90.66	29 11	89.61	30.51	88.53	31.87
50	91.61	27 72	90.62	29 15	89.58	30.55	88.49	31.92
52	91 58	27.77	90.59	29.20	89.54	30.60	88.45	31.96
54	91.55	27.81	90.55	29 25	89.51	30.65	88.41	32 01
56	91.52	27 86	90 52	29.30	89.47	30 69	88.38	32.05
58	91.48	27.91	90.48	29.34	89.44	30 74	88.34	32.09
60	91 45	27.96	90.45	29.39	89.40	30.78	88 30	32.14
c= .75	.72	.21	72	.23	.71	.24	.71	.25
c=1.15	1 10	33	1 10	35	1.09	.37	1.08	.38
c=1.90	1 82	.54	1.81	57	1.80	60	1.79	.63

Min.	20°		21°		22°		23°	
	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff. Elev.	Hor. Dis.	Diff. Elev.	Hor. Dist.	Diff. Elev
0′	88.30	32.14	87.16	33.46	85.97	34 73	84.73	35.97
2	88.26	32.18	87.12	33.50	85.93	34.77	84.69	36.01
4	88.23	32.23	87.08	33.54	85.89	34.82	84.65	36 05
6	88.19	32.27	87.04	33.59	85.85	34 86	84.61	36 09
8	88.15	32.32	87.00	33.63	85.80	34.90	84 57	36.13
10	88.11	32.36	86.96	33.67	85.76	34.94	84.52	36.17
12	88.08	32.41	86.92	33.72	85.72	34.98	84.48	36.21
14	88 04	32.45	86.88	33.76	85.68	35 02	84.44	36.25
16	88.00	32.49	86.84	33.80	85.64	35.07	84.40	36.29
18	87.96	32.54	86.80	33.84	85.60	35.11	84.35	36.33
20	87.93	32.58	86.77	33.89	85.56	35.15	84.31	36.37
22	87.89	32.63	86.73	33.93	85.52	35.19	84.27	36.41
24	87.85	32.67	86.69	33.97	85.48	35.23	84.23	36.45
26	87.81	32.72	86.65	34 01	85.44	35.27	84.18	36.49
28	87.77	32.76	86.61	34.06	85.40	35 31	84.14	36.53
30	87.74	32.80	86.57	34.10	85.36	35.36	84.10	36.57
32	87.70	32.85	86.53	34.14	85.31	35.40	84.06	36 61
34	87.66	32.89	86.49	34.18	85.27	35.44	84.01	36.65
36	87.62	32.93	86 45	34 23	85.23	35.48	83 97	36.69
38	87.58	32 98	86.41	34.27	85.19	35.52	83.93	36.73
40	87.54	33.02	86.37	34.31	85.15	35.56	83.89	36.77
42	87.51	33.07	86.33	34.35	85.11	35.60	83.84	36 80
44	87.47	33.11	86.29	34.40	85.07	35 64	83.80	36.84
46	87.43	33.15	86.25	34.44	85.02	35.68	83.76	36.88
48	87.39	33.20	86.21	34.48	84.98	35.72	83 72	36.92
50	87.35	33.24	86.17	34.52	84.94	35.76	83 67	36.96
52	87.31	33.28	86.13	34.57	84.90	35.80	83.63	37.00
54	87 27	33.33	86.09	34.61	84.86	35.85	63.59	37.04
56	87 24	33.37	86.05	34.65	84.82	35 89	83.54	37 08
58	87 20	33.41	86.01	34.69	84.77	35.93	83.50	37.12
60	87.16	33.46	85.97	34.73	84.73	35.97	83.46	37.16
c= .75	.70	.26	.70	.27	.69	.29	.69	.30
c=1.15	1.08	.40	1.07	.42	1.06	.44	1.05	.46
c=1.90	1.78	.66	1.77	70	1.76	.73	1.74	.76

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Table of Stadia Reductions.—Continued.

Min.	24°		25°		26°		27°	
	Hor Dist.	Diff. Elev.	Hor. Dist.	Diff Elev.	Hor. Dist.	Diff. Elev.	Hor. Dist.	Diff.. Elev.
0'	83.46	37.16	82.14	38.30	80.78	39.40	79.39	40.45
2	83.41	37.20	82.09	38.34	80 74	39.44	79.34	40.49
4	83.37	37.23	82.05	38.38	80.69	39.47	79.30	40.52
6	83.33	37.27	82.01	38.41	80.65	39.51	79.25	40.55
8	83.28	37.31	81.96	38 45	80 60	39.54	79.20	40.59
10	83.24	37.35	81.92	38.49	80 55	39.58	79.15	40.62
12	83.20	37.39	81.87	38.53	80.51	39.61	79.11	40.66
14	83.15	37.43	81.83	38.56	80.46	39.65	79.06	40.69
16	83.11	37.47	81.78	38.60	80.41	39.69	79.01	40.72
18	83.07	37.51	81.74	38.64	80.37	39.72	78.96	40.76
20	83.02	37.54	81.69	38.67	80.32	39.76	78 92	40.79
22	82.98	37.58	81.65	38.71	80.28	39.79	78.87	40.82
24	82.93	37.62	81.60	38.75	80.23	39.83	78.82	40.86
26	82.89	37.66	81.56	38.78	80.18	39.86	78.77	40.89
28	82.85	37.70	81.51	38.82	80.14	39.90	78.73	40.92
30	82.80	37 74	81.47	38 86	80.09	39.93	78.68	40.96
32	82.76	37.77	81.42	38.89	80 04	39.97	78.63	40.99
34	82.72	37.81	81.38	38.93	80.00	40.00	78.58	41.02
36	82.67	37.85	81 33	38.97	79.95	40.04	78.54	41 06
38	82.63	37.89	81 28	39.00	79.90	40.07	78.49	41.09
40	82.58	37.93	81 24	39 04	79.86	40.11	78 44	41.12
42	82.54	37.96	81.19	39 08	79.81	40.14	78.39	41.16
44	82.49	38.00	81.15	39 11	79.76	40.18	78.34	41.19
46	82 45	38.04	81.10	39.15	79 72	40.21	78.30	41.22
48	82 41	38 08	81 06	39.18	79.67	40 24	78.25	41.26
50	82.36	38 11	81.01	39.22	79.62	40.28	78 20	41.29
52	82.32	38.15	80.97	39.26	79.58	40.31	78.15	41.32
54	82 27	38.19	80.92	39.29	79.53	40 35	78.10	41.35
56	82.23	38.23	80.87	39.33	79.48	40.38	78 06	41.39
58	82.18	38.26	80.83	39.36	79.44	40.42	78.01	41.42
60	82 14	38.30	80 78	39.40	79 39	40.45	77 96	41 45
c= 75	68	31	.68	.32	67	.33	.66	.35
c=1 15	1.05	48	1.04	.50	1.03	51	1.02	.53
c=1 90	1.73	79	1.72	82	1.70	85	1 69	.88

Min.	28°		29°		30°	
	Hor. Dist	Diff Elev.	Hor. Dist	Diff Elev.	Hor. Dist.	Diff. Elev.
0'	77 96	41 45	76.50	42 40	75.00	43 30
2	77.91	41.48	76.45	42.43	74.95	43.33
4	77.86	41 52	76.40	42.46	74.90	43.36
6	77.81	41.55	76 35	42.49	74.85	43 39
8	77.77	41 58	76.30	42.53	74 80	43.42
10	77.72	41.61	76.25	42.56	74.75	43.45
12	77.67	41.65	76.20	42.59	74.70	43 47
14	77.62	41.68	76.15	42 62	74.65	43.50
16	77.57	41.71	76.10	42.65	74.60	43 53
18	77.52	41.74	76.05	42.68	74.55	43 56
20	77.48	41.77	76.00	42.71	74.49	43.59
22	77.42	41.81	75.95	42 74	74.44	43 62
24	77.38	41.84	75.90	42.77	74.39	43 65
26	77.33	41.87	75.85	42.80	74 34	43.67
28	77.28	41.90	75.80	42.83	74.29	43 70
30	77.23	41.93	75.75	42.86	74.24	43 73
32	77.18	41 97	75.70	42.89	74.19	43.76
34	77.13	42 00	75.65	42.92	74.14	43 79
36	77.09	42.03	75.60	42.95	74.09	43.82
38	77.04	42.06	75.55	42 98	74.04	43 84
40	76.99	42.09	75.50	43.01	73.99	43.87
42	76.94	42.12	75 45	43 04	73.93	43 90
44	76.89	42.15	75.40	43 07	73 88	43.93
46	76.84	42.19	75.35	43.10	73.83	43 95
48	76.79	42 22	75.30	43.13	73.78	43.98
50	76.74	42.25	75 25	43.16	73.73	44 01
52	76.69	42.28	75 20	43.18	73.68	44 04
54	76.64	42.31	75.15	43.21	73.33	44 07
56	76.59	42.34	75.10	43.24	73.58	44 09
58	76.55	42.37	75.05	43 27	73.52	44.12
60	76.50	42.40	75.00	43 30	73.47	44.15
c= .75	.66	.36	.65	.37	.65	38
c=1.15	1 01	.55	1.00	.57	0.99	.58
c=1.90	1.67	91	1.65	.94	1 64	.95

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INDEX

"A" Line Pages 2-9, 18-19, 26-28

"B" Line " 11-16,

"C" Line " 21-24

"D" Line " 30-

"A" Line

Railroad line Produced westerly

Sta	Defs.	Dist.	Mag	true
△ A 0+00			N69°15'W	
1+00				
2+00				
2+45				
3		800.0'		
4				
5				
6				
~~A 7~~ 7+00				
△ A-8+00	10°00'Lt			
9			N79-W ~~N70°W~~	
10				
11		588.90		
+44.5				
12				
13				
△ A. 13+88.90	12°43'Lt		S88°15'W ~~N~~	

~~11+44.5~~

~~2+45 m~~

March 11th 1912

Comstock --- Transit.
Hyde --- R. Chain
Jacobs --- H "
Zoberbier --- S. Puncher.

B.S. East

P.O.T on railroad Sebasterpol - Petaluma

First fence crossing

Second fence crossing

"A" Line Cont'd.

Sta.	Defl	Dist	Mag	Trav
A - 14+00				
15				
16				
17				
18				
19				
20		1190.10		
21				
22				
23				
24				
25				
△A 25+79.00	14°43' Lt			
26			S73°30' W	
27				
28		403.70		
29				
△A 29+82.7	5°54' Rt. ~~9°54' Rt.~~			
+ 93.00			S79°15' W	

△ A 29+82.7 is 8.0 ~~west~~ South west. ~~east~~ of ℄ road

To west side of road fence

"A" Line Cont'd

Sta	Def.	Dist	Mag-	true
30				
31				
32				
33				
34				
35		1454.70		
36				
37				
38				
39				
40				
41				
△ "17" 41+37.4	22°15' Rt.			
42			N78°30'W	
43				
44				
45				
46		862.60		
47				

Center of little clump of Gum trees.

"A" Line Cont'd

	48		
	49		
△A -	50+00	4°28' Lt	
	51		N83° W
	52		
	53		
	54		
	55	1046.80	
	56		
	57		
	58		
	59		
	60		
△	60+46.80	5°48' Lt	
	61		N89° W
	62		
	63		
	64	608.85	
	65		

60 x 46.8

"A" Line Cont'd

66

△ 66+55.65 6°15' Rt.

+58 N82°30'W

67

68

69 580.95'

70

71

72.

△ 72+36.60 0°26' Rt

73 N82°00'W

74

75

76

77 1169.83'

78

79

80

81

West edge of small clump Gum trees

Picket fence

Top of rise (Summit)

"A" Line Contd.

82			
83			
84			
△ 84+06.45	P.O.T.		
85			N82°45'W
86			
87			
88		620.10	
89			
90			
△ 90+26.55	P.O.T.		
91			N82°5'W
92			
93			
94			
95		1069.15	
96			
97			
98			

End of old roadbed cut.

End of old roadbed fill.

"A" Line Cont'd

Sta	Def.	Dist	Mag	true
99				
100				
△ 100+95.70	P.O.T.			
101				
102				
103				
104		1040.95		
105				
106				
107				
108				
109				
110				
111				
△ 111+36.65	P.O.T			
112				
113		394.95		
114				
115				

Note Copyed March 11th 9:00 P.M.

March 12th

Same Crew

Weather

A.M. rain

"A" Line Cont'd.

	Def.	Dist.	Mag.	True
△ 116+31.60				
	5°14'22			
116	~~5°15'22~~			
117			N87°30'W	
118				
119				
120		968.4		
121				
122				
123				
124				
△ 125+00.0	P.O.T.			
126				
127			N87°30'W	
128		600.00		
129				
130				
△ "A" 131+00.0				

"A" Cont'd on Page 18

"A" 131+00. = "B" 0+00

"B" Line runs back N. E. Easterly up draw to left.

"B" Line

Sta.	Dat.	Dist.	Mag	true

"B" Line runs N. easterly up draw to left.

"B" 0+00 = "A" 131+00

"B" 0+00	30°00'Lt	of B.S.		
1			N62°36'E	
2				
3				
4				
5		1000.00		
6				
7				
8				
9				
Δ "B" 10+00	P.O.T.			
11				
12			N62°36'E	
13				
14		1000.00		
15				
16				
17				

March 12th 1912 Party "Samc"
weather
"threatening P.M.

to tie in with Sebastopol Electric R.R.

B. S. "A" 125+00

"B" Line Cont'd.

Sta.	Def.	Dist	Mag.	true
18				
19				
20+00	P.O.T.			
21			N 62° 36' E	
22				
23				
24				
25		1000.00		
26				
27				
28				
29				
30+00	P.O.T.			
31				
32			N 62° 36' E	
33				
34				
35		1000.0		
36				

"B" Line Cont'd.

Sta.	Def	Dist.	Mag	True
37				
38				
39				
△ 40+00	20°00'Rt.			
41				
42			N42°30E	
43				
44				
45		1000.0		
46				
47				
48				
49				
△ 50+00	16°30'Rt.			
51				
52			N59°00'E	
53				
54				
55				

"B" Line Cont'd

Sta.	Def.	Dist.	Mag.	true
56				
57				
58				
59		1312.0		
60				
61				
62				
63				
△ 63+12.0	7°15' Rt.			
64				
65			N66°30'E	
66				
67		888.0		
68				
69				
70				
71				
△ 72+00	11°30' Lt.			
			N55°E	

"B" Line Cont'd 2

	Sta.	Def.	Dist	Mag	True
	73				
	74				
	75				
	76		800.0		
	77				
	78				
	79				
△	80+00	P.O.T.			
	81				
	82			N55°E	
	83				
	84		700.0		
	85				
	86				
△	87+00				
	88	10°00'Rt			
	89			N65°E	

Notes Copyed March 12th 9.00 P.M.

March 13th 1912

A.M.

Weather rainy.

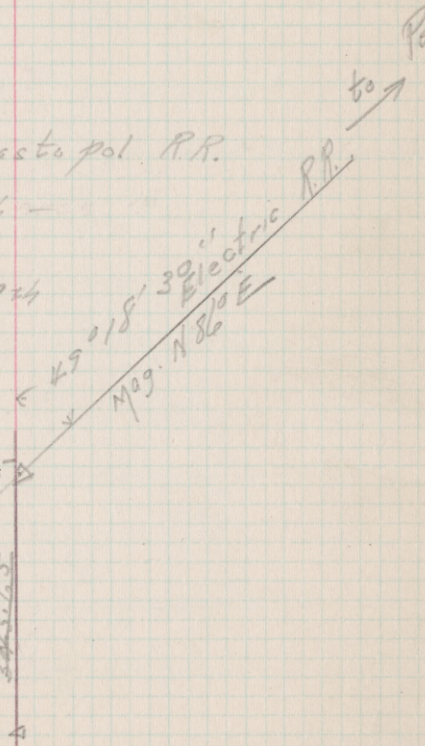
"B" Line Cont'd

Sta.	Def.	Dist.	Mag.	true
△ 90+00				
	10°50' Rt.			
91	~~11°00' Rt.~~			
92		300.0		
△ 93+00			N76°E	
94	10°00' Rt.			
		245.65		
95		~~200~~	N86°E	
△ 95+45.65				
	~~49°18'30" Rt.~~			
	~~49°48' Rt.~~			

Intersecting Sebastopol R.R.

Tie in See Sketch –

Notes Copyed March 18th
1:00 P.M.



"A" Line Cont'd from page 9

Sta	Def.	Dist	Mag	true
△"A" 131+00				
132	13°45' Lt.			
133		379.9		
134			S78°45W	
△ 134+79.9				
135	17°00' Lt.			
136				
137			S62°W	
+02.0				
138				
139		820.1		
140				
141				
142				
△ 143+00	P.O.T.			
144				
145			S62°W	
146				
147				

79.9

95.7 to fence

To picket fence to east side County rd.

"A" Line Cont'd

Sta.	Def.	Dist.	Mag	true
148				
149		1200.0		
150				
151				
152				
153				
154				

△ 155+00

"A" 155+00 = "C" 0+00

Cont'd on page - 26

= 15.0 rt of ℄ County rd.

= 6.0 " " " " " "

= ℄ Culvert County rd.

15 ~~30~~ 10.0 west of ℄ County rd

"C" Line

Sta	Def.	Dist.	Mag.	true
"C" 0+00 = "A" 155+00				
"C" 0+00				
1+00	2°15' Rt		of 13. S.	
2			N64°10'E	
3				
4				
5				
6		1300.0		
7				
8				
9				
10				
11				
11½				
A 13+00				
14	15°45' Rt.			
15				
16			N80°E	
+03.0				

B.S. "17" 143+00 61+00 center of Culvert County rd.

In County road

" " "

" " "

" " "

" " "

10.0 N. of ℄ County road

Picket fence west side County rd

7W "C" Line Contd

Sta	Def.	Dist.	Mag.	true
+59				
17				
18				
19		1000.0		
20		"		
21				
22				
Δ 23+00				
24	15°00' Rt.			
25				
26			S 85° E.	
27				
28				
29		1000.0		
30				
31				
32				
Δ 33+00	P.O.T.			
			S 85° E	

Pulled fence. County road east side.

Notes Copyed March 13th 9.00 p.m.

March 14th 1912

Same Crew

Weather

Fair

"C" line Contd.

Sta.	Def.	Dist.	Mag	true
34				
35				
36				
37				
38		1000.0		
39				
40				
41				
42				
△ 43+00				
44	15°19' Lt.			
45				
46			N79°35" E ~~S79°35" W~~	
47		1015.05		
48				
49				
50				
51				
52				

~~"B" Line Cont'd from Page~~

~~Sta. Def Dist Mag. true~~
Sta. Def. Dist. Mag true.
~~D 131+00~~

"C" Line Cont'd.

53

△ 534+15.05

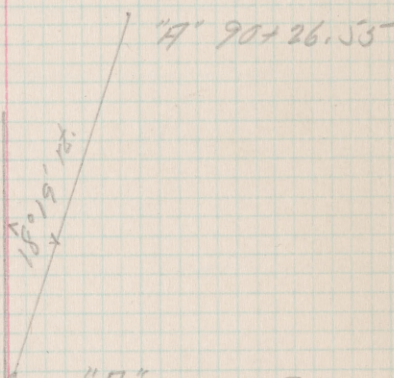
18°19' Rt

~~Def~~

S82° E

℄ 53+15.05 = ℄ 100+95.7

Tie in with "A" Line 100+95.7
See Sketch below



Tie in "C" Line
with "A" "

"C" 43+00

n5

26 "A" Line Cont'd from page 19

Sta.	Def	Dist.	Mag.	true
△ 155+00				
156	10°17' Lt.			
157				
158			S51°30'W	
159				
160		1000.0		
161				
162				
163				
164				
△ 165+00	P.O.T.			
166				
167			S51°30'W	
168 +56				
169				
170		1000.0		
171				
172				
173				

Vertical L — 30'

Fence ——

"A" Line Cont'd.

Sta	Det.	Dist.	Mag	true
174				
△ 175+00	P.O.T.			
176				
177			S51°30'W	
178				
179				
180		1000.0		
181				
182				
183				
184				
△ 185+00	P.O.T.			
186				
187			S51°30'W	
188				
189				
190		1000.0		
191				
192				

"A" Line Cont'd.

Sta	Def.	Dist.	Mag. true
193			
194			
△ 195+00	P.O.T.		
196			S 51°30 W
+13			
197			
198			
199			
200		1000.0	
201			
202			
203			
204			
△ 205+00			
206	29°50' Lt.		
207			
208			S 22° W
209			

To fence (board & wire)

"D" Line

Sta	Def.	Dist	Mag Brng
"D" 0+00 = "A" 151+00			
0+00			
1	17°43'Lt		of B.S.
2		400.0	
3			S 46° W
△ 4+00			
5	23°50'Lt	270.0	
6			S 20°30' W
△ 6+70			~~40°30' Lt~~
7	4°00'Lt		
8			S 16°30' W
9			
10		530.0	
11			
△ 12+00			
13	20°00 Rt		
+ 34			
14			S 36°30' W
15			

"D" Line runs up left of bottom

B.S. East on "A" Line.

Picket fence

"D" Line Contd

Sta.	Def.	Dist.	Mag.	true
16				
17		700.0		
18 +77.5				
△ 19+00.				
~~△ 20+00~~ +38				
20	7°00' Rt.			
21			S43°30' W	
22				
23				
24		1100.0		
25				
26				
27				
28				
29				
△ 30+00				
31	12°30' Rt.			
32			S56° W	
33				

Picket fence

Pasture fence

Fence

"D" line Cont'd

Sta.	Def.	Dist.	Mag.	True
34				
35				
36		1000.0		
37				
38				
39				
Δ 40+00	P.O.T.			
41			S 56° W	
42				
43				
44				
45		1000.0		
46				
47				
48				
49				
Δ 50+00	P.O.T.			
51			S 56° W	
52				

"D" Line Cont'd

Sta	Def.	Dist.	Mag	true
53				
54				
55				
56		1000.0		
57				
58				
59				
△ 60+00	P.O.T.			
61			S56°W	
62				
63				
64				
65		1000.0		
66				
67				
68				
69				
△ 70+00	12°33' Rt			
			S68°30'W	

March 15th 1918

weather
P.M. Rain

Same Crew

"D" Line Cont'd

Sta	Def.	Dist.	Mag	true
71				
72				
73				
74				
+19		1000.0		
75				
76				
77				
78				
79				
△ 80+00	P.O.T.			
81				
82				
83				
84				
+68				
85		1000.0		
86				
87				

barbed wire fence.

Picked fence -

"D" Line Contd

Sta	Def.	Dist.	Mag true
88			
89			
△ 90+00	P.O.T. ~~7° 30' Lt~~		S68°30'W ~~S61°00~~
91			
~~+87~~ ~~+64~~			
92			
93			
~~27~~ ~~+56~~			
94		900.0	
95			
96			
+26			
97			
98			
△ 99+00	4°00' Lt		
100			S65-0W
101			
102			
+25			

March 15th
P.M.
Weather (threatening)

wire fence

Picket fence

Board fence

Fence

"D" Line Cont'd

103				
104				
105		1100.0		
106				
107				
108				
109				
△ 110+00	P.O.T.			
111				S 65° W
112				
113				
114		900.0		
115				
116				
117				
118				
△ 119+00	34° 17 ft ~~34° 15'~~ ft			
120				N 81° 30' W
121				

"D" Line Contd

Sta	Def	Dist	Mag	true
122				
123				
124				
125		1100.0		
126				
127				
128				
129				
△ 130+00	P.O.T.			
131				
132				
133				
134				
135		1000.0		
136				
137				
138				
139				
△ 140+00	P.O.T.			

"D" Line Contd

141		300.0
142		
Δ 143+00	P.O.T.	
144		
175		
146		600.0
147		
148		
+85		
Δ 149+00		

Ticket Fence E. Side Co. Rd.

Notes Copyed March 15th 1912
900 P.M.

"A" Line Contd.

Sta	Def	Dist	Mag	true
"A" △155+00	4°30 Rt			
156				
157			S66°15'W	
158				
159				
160		1000.0		
161				
162				
163				
164				
⌭ 165+00	P.O.T.			
166				
+65				
167				
168				
169		800.0		
170				
171				
172				

March 16th 1912

B.S. "A" Line East

B.W. fence. S. side Co. Rd.

Picket fence

"A" Line Contd

Sta	Def.	Dist	Mag.	True
△ 173+00	16°15'Lt			
+9				
174			S 50° W	
175				
176				
+67				
177				
178		1000.0		
179				
180				
181				
182				
△ 183+00	P.O.T.			
184				
185				
186				
187		900.0		
188				
189				
190				

wire fence

fence

"A" Line Cont'd

Sta	Def.	Dist.	Mag	True
191				
△ 192+00	P.O.T.			
193				
194				
195				
196				
197		950.0		
198				
199 ~~+6~~				
+67				
200				
201				
~~+00~~				
△ 201+50	P.O.T.			
202			S 50° W	
203		350.0		
204				
△ 205+00	~~20° 44'~~ Rt.			
206	20° 06' Rt.		S 70° 15 W	

Picket fence

Picket fence. 2017-95

"F" Line Contd

Sta.	Def.	Dist	Mag brue
207			
208			
209			
210			
211		1000.0	
212			
213			
214			
D 215+00	P.O.T.		
216			
217		400.0	
218			
D 219+00	P.O.T.		
220			S70°30W
221			
222			
223			
224			
225		1000.0	

"A" Line Cont'd

Sta	Def.	Dist	Mag brec
226			
227 + 46			
228			
△ 229+00	5°50' Lt.		
230			S65° W
231			
232			
233			
234		1000.0	
235			
236			
237			
238			
△ 239+00	P.O.T.		
240			
241			
242			
243			
244			

Fence

"A" Line Contd

Sta	Def	Dist	Mag	True
245				
246 + 42.5		1000.0		
247 + 61				
248				
△ 248+00	P.O.T.			
250			S64°30W	
251				
252				
253				
254				
255		1000.0		
256				
257				
258				
△ 259+00	P.O.T.			
260				
261				
262				
263				

France
France

"A" Line Contd

Sta	Def.	Dist	Mag	true
264				
265		1000.0		
266 +34				
267				
268				
⌂269+00	P.O.T.			
270				
271				
272				
273				
274		1000.0		
275				
276				
277				
278				
⌂279+00	19°21'Lt			
280			S45°W	
281			S40°W	
282				

Fence

"A" Line Control

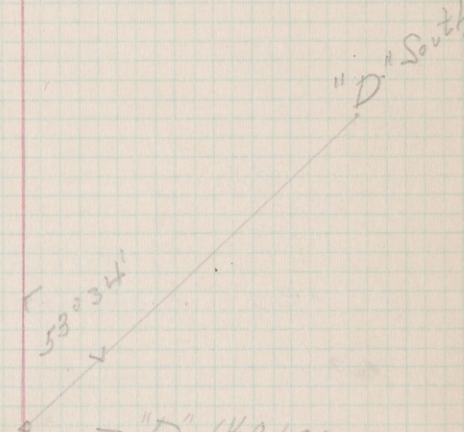
sta	Def.	Dist	Mag	true
283				
A 283 +91.0		600.0		
284				
D 285+00	51°23' Rt.			
286			N83°30'W	
287				
288				
289		800.0		
290				
291 +38		Rt of fence E. side Cord.		
292 +53		Rt rict fence W. " " "		
A 292+00	32°53' Rt.			
294		March 18th 1912		
295			N5°45'W	
296 +82 fence				
297 +22 fence		700.0		
298				
299				

053
15-
128

"A" 283+91.0 = "D" 140+00

See Sketch for Tie in.

"A" 279+00



A 283+91.0 = "D" 140+00

"A" 095+00

"7" Line Cont'd

Sta	Def	Dist	Mag	true
	19°03' Rt.			
△ 300+00	~~+19°03' Rt.~~			
301			N31°30'W	
302				
303				
304 +69.				
305		1000.0		
306 +34.				
307				
308				
309				
	18°31' Rt.			
△ 310+00	~~+18°32' Rt.~~			
311			N13°W	
312				
313				
314				
315				
316				
317		1000.0		
318				

fence

fence

"A" Line Contd

Sta.	Def.	Dist	Mag.	true
319				
△320+00	P.O.T.			
321			N13°W	
322				
323				
324 +72				
325		900.0		
326				
327				
328				
△329+00	13°10' Rt			
330			N0°10'E	
331				
332 +41.				
333 +37.0				
334				
335				
336		1000.0		
337				

Bridge over small stream

Fence

Fence W. side County Rd

"A" Line Contd.

338 + 35.0			
△ 339+00	P.O.T.		
340			N10°E
341			
342		600.0	
343			
344			
△ 345+00	7°27' Lt		
346			N7°15'W
347			
348			
349			
350			
351			
352			
353		1200.0	
354			
355			

Fence E. side Co rd.

Fence

Notes turned in March 18th 1912
Corrected by Matthew + Comstock.

"A" Line Contd

Sta	Def	Dist	Mag.	true
356				
D 357+00	12°07' Rt			
358			N4°45'E	
359				
+92.0				
360				
361				
362		1000.0		
363				
364				
365				
366				
△ 367+00	P.O.T.			
+48				
368				
369				
370				
371				
372				
+22				
+61				

Fence

Fence

Fence E. of Co. Rd.

Fence N. of Co. Rd

51 "A" Line Contd

Sta	Def.	Dist.	Mag true
371			
+94			
~~A 371+00~~		700.0	
~~371~~			
373			
A 371+00	131°50'	Rt.	

"A" line Contd on page #1 Book 2

Fence.

$= E.0+00$

54

~~"F" Line~~

"E" Line.

Sta.	Def.	Dist.	Mag.	true
E 0+00	45°10' Lt of B.S.			
1			~~S43° Lt~~	
+77.0			15'	
2			S43° E	
+27				
3				
4				
5		1000.0		
6				
+92.0				
7				
8				
9				
△ 10+00.0	45°56' Rt			
11				
12			S 03 45' W	
13				
14				
15				
16		1000.0		
+79.0				
17				
18				

B.S. "A" 367+00
="A" 374+00
Fence Co. rd. N. side
Fence " " S. "

Fence

Fence

"E" Line Cont'd

Sta	Def	Dist	Mag	true
19				
△ 20+00	P.O.T			
21				
22				
23				
24		1000.0		
25				
26				
27				
28				
29				
△ 30+00	P.O.T.			
31				
32				
33				
34				
35				
36				
37				

Cont'd on page 58

Observation on Polaris

March 13th 1912

T @ "A" 115+31.6	Time	Ang. B.S. "A" 11
1st shot	7-40-10	79°40' Rt.
2nd "	8-03-00	79°41 Rt
3rd "	8-09-15	79°41' Rt
4th "	8-14-45	79°40'30' Rt.

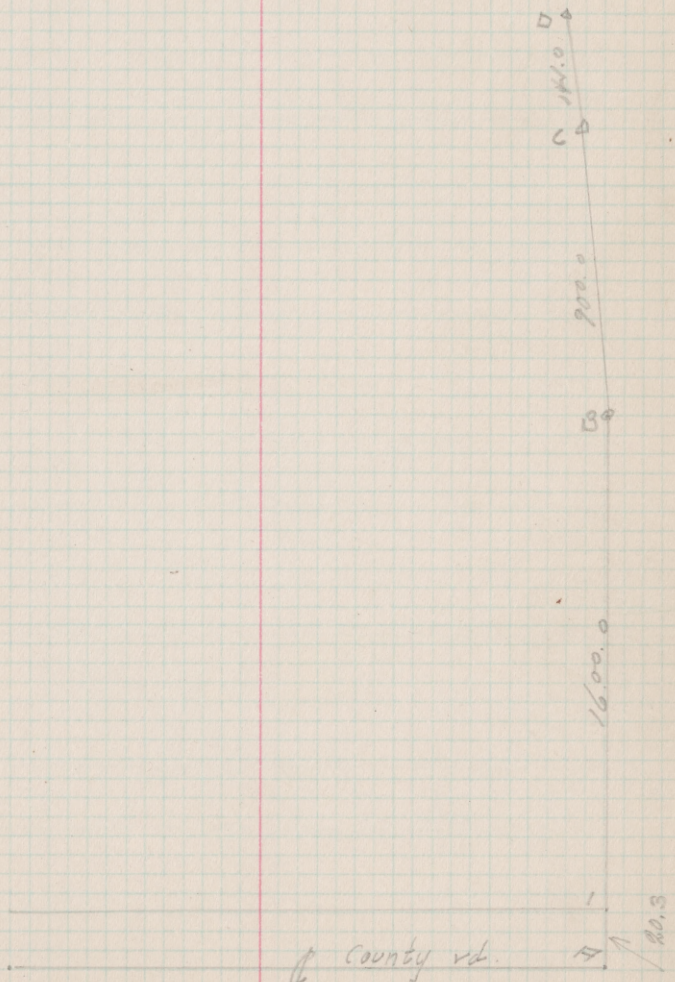
Comstock — Transit

Laird Asst

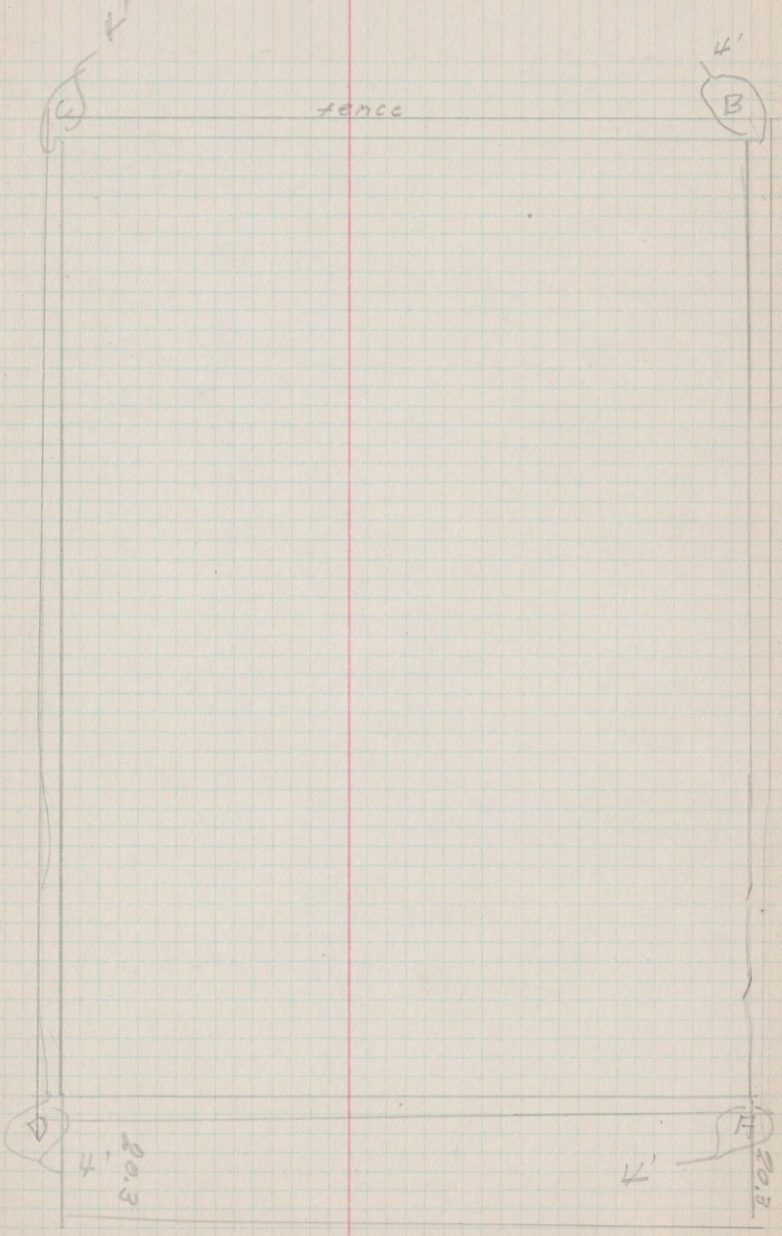
Jacobs "

Angle	Value	Line	Dist	Need.
	0°30'			
A. B. C	0°31'	A.B.	1600.0	N 0°45' E
		A.1	20.3	
		B.C.	900.0	
B. C. D	1°11'			
		C.D.	1411.0	

All angles ⊥ of B.S. B.S. = B to A.



Angle	Dcf	~~Dist~~ Line	~~Dist~~ Mag.	Mag.
D.A.B	89°49'	A.B.	~~N0°45'E~~	N0°45'E


4'
4'
C
fence
B
D
4'
20.3
4'
A
20.3

57 Boundary Survey for Nicklevon
to Ascertain the Acreage of a certain
piece of land.

Beginning @ ℄ County rd @
S.E. corner following wire fence
North to back line, thence Westerly
to N.E. Cor.
to N.W. Cor. thence south to S.W. Cor
℄ Co. rd. thence along said ℄ to
Point of beging and containing
Acres of land

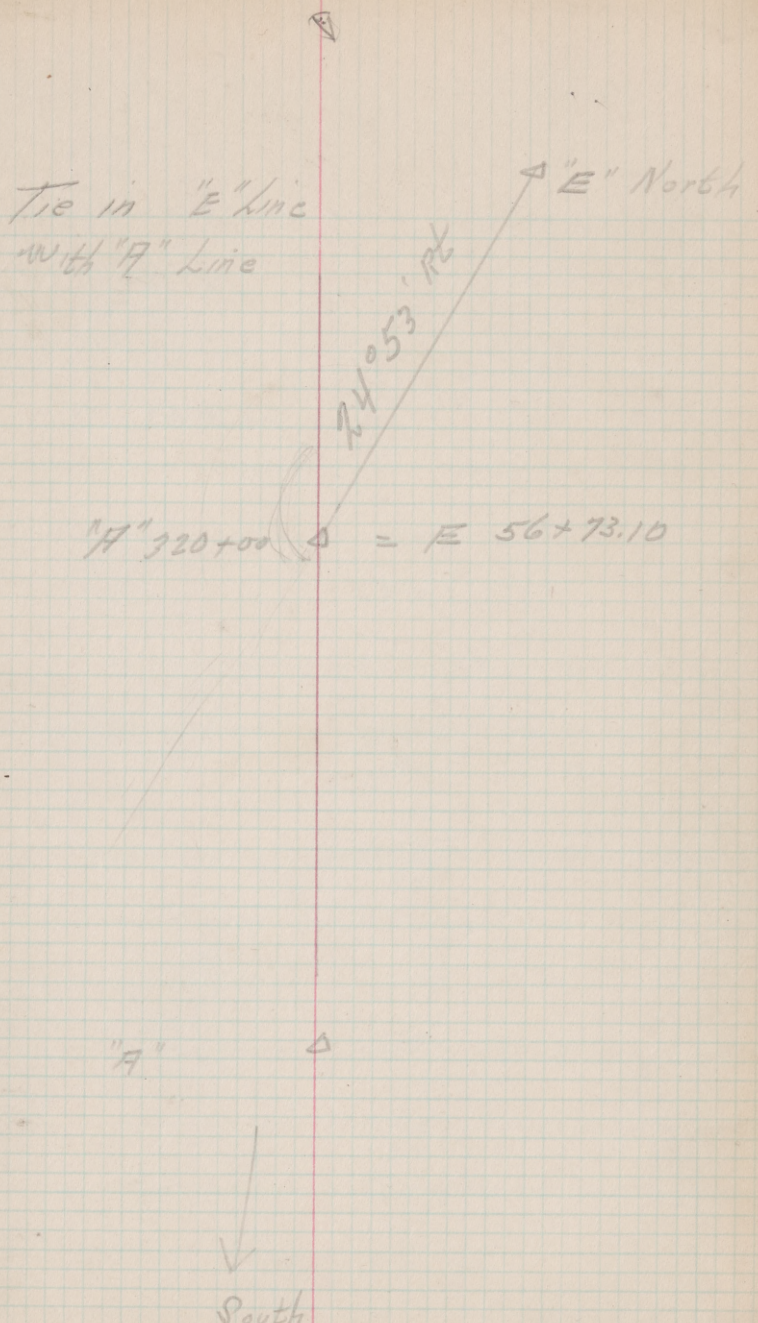
Def. Dist Mag.
Λ @ S.E. cor ℄ Co. rd.
89°49 ℄ N30'E

B. S. N.

"E" Line Cont'd
from page 53

Sta	Def.	Dist	Mag	True
38				
39				
	9°19' Rt			
△ 40+00	~~6°51' Rt~~			
41				
42			S12° W	
			~~S 11° W~~	
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				

△ 56+73.10 = "A" 32.0+00



See Sketch for tie in.

N 4-45 E
44-16 L

N 73°30' W
9-51 AE

N 63-39 W
3-30

N 60-09 W
11-16

N 71-25 W
15-56

N 55-29 W
78-21

N 22-52 E

N 4-45 E
40-30 L

N 35-45 W
6-30

~~N 42-15 W~~

N 29-15 W
30-00

N 59-15 W
45-10

104-25
179-60

S 75-35 W
34-30 H.

110-05
179-60

N 69-55 W
3-35

N 66-20 W
8-30

N 57-50 W
7-30

N 65-20 W
12-30

N 52-50 W
42-10

N 10-40 W
10-

N 20-40 W
20-

N 40-40 W
17-30

N 58-10 W
25-00

N 83-10 W
6-30

N 89-40 W
22-05

111-45
179-60

S 68-15 W
2-50

S 71-05 W

88.90

528+92. Fence
529+59 "
531+75 "
545+80.0 ~~75 37.8~~
Fence. — Property line - Stone & Gaber

Plan Section line
1600.0

1600
900
141
2641

S 89° 45' W
11 - 20
101 - 105
179 - 65
178 - 55 W
78 - 40
S 00 - 11 E

2641
20

16.5 | 2661 | 16.1
165
1011
990
210

860.60

3.4

.00757

16.5 | 2661.0 | 16
165
911
990
1

16.5 | 2661. | 161.28
165
1011
990
211
165
460
330
1300
1320

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes	Lks.	Minutes	Lks.	Minutes	Lks.
1	2 1/3	21	49	41	95 2/3
2	4 2/3	22	51 1/3	42	98
3	7	23	53 2/3	43	100 1/3
4	9 1/3	24	56	44	102 2/3
5	11 2/3	25	58 1/3	45	105
6	14	26	60 2/3	46	107 1/3
7	16 1/3	27	63	47	109 2/3
8	18 2/3	28	65 1/3	48	112
9	21	29	67 2/3	49	114 1/3
10	23 1/3	30	70	50	116 2/3
11	25 2/3	31	72 1/3	51	119
12	28	32	74 2/3	52	121 1/3
13	30 1/3	33	77	53	123 2/3
14	32 2/3	34	79 1/3	54	126
15	35	35	81 2/3	55	128 1/3
16	37 1/3	36	84	56	130 1/3
17	39 2/3	37	86 1/3	57	133
18	42	38	88 2/3	58	135 1/3
19	44 1/3	39	91	59	137 2/3
20	46 2/3	40	93 1/3	60	140

TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
o		o		o		o	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

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